

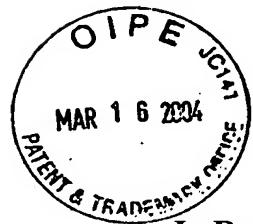
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DOCKET NO.: ABMS-0153/B000360

PATENT



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Arthur L. Lanni, et al.

Application No.: 10/041,001

Filing Date: December 28, 2001

For: High Initial Force Electromagnetic Actuator

Confirmation No.: 4719

Group Art Unit: 2832

Examiner: Lincoln D. Donovan

EXPRESS MAIL LABEL NO: EV 386 719 934 US  
DATE OF DEPOSIT: March 16, 2004

EV386719934US

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**AMENDMENT, REQUEST AND PROCESSING FEE TO DELETE AND/OR  
ADD TO ORIGINAL ERRONEOUSLY NAMED OR NOT NAMED INVENTOR(S)  
IN DECLARATION - NONPROVISIONAL APPLICATION -  
(37 CFR § 1.48(a))**

This amendment and request is to correct the incorrect original naming of inventor(s) in the declaration under 37 CFR § 1.48(a) as set forth and filed on March 13, 2002.

Addition and/or Deletion of Inventor(s)

Add the following previously unnamed person(s) as inventor(s) of this application:

Marty L. Trivette

Delete the following previously incorrectly named inventor(s)

## Attachments

**Attached are:**

A statement from  
(check items that apply)

each person being added as an inventor that the error in inventorship occurred without deceptive intention on his or her part. 37 CFR § 1.48(a)(1).

each person being deleted as an inventor that the error in inventorship occurred without deceptive intention on his or her part. 37 CFR § 1.48(a)(1).

a declaration by each of the actual inventor(s) as required by 37 CFR § 1.63 (or as permitted by §§§ 1.42, 1.43, or 1.47. 37 CFR § 1.48(a)(2)).  
*Note that two Supplemental Declarations, each naming all of the inventors, are attached: one executed by Arthur L. Lanni; the second executed by Varagur R. Ramanan and Marty L. Trivette.*

written assent of the assignee (if any of the original inventors executed an assignment). 37 CFR § 1.48(a)(4).

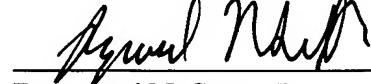
## Processing Fee Payment (37 CFR § 1.17(i))

A check in the amount of \$130.00 is attached. Please charge any deficiency or credit any overpayment to Deposit Account No. 23-3050.

Please charge Deposit Account No. 23-3050 in the amount of \$ .00.  
This sheet is attached in duplicate.

The Commission is hereby authorized to charge payment of the above fees associated with this communication or credit any overpayment to Deposit Account No. 23-3050. This sheet is attached in duplicate.

Date: March 16, 2004



Raymond N. Scott, Jr.  
Registration No. 48,666

Woodcock Washburn LLP  
One Liberty Place - 46th Floor  
Philadelphia PA 19103  
Telephone: (215) 568-3100  
Facsimile: (215) 568-3439

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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:  
Arthur L. Lanni, et al.

For: HIGH INITIAL FORCE ELECTROMAGNETIC ACTUATOR

## SUPPLEMENTAL DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

## TYPE OF DECLARATION

The above identified application is a:

*(check one applicable item below)*

<input checked="" type="checkbox"/> Original	<input type="checkbox"/> Divisional
<input type="checkbox"/> Continuation	<input type="checkbox"/> U.S. National Stage of PCT
<input type="checkbox"/> Continuation-in-Part	

My full name (including family name and at least one given name without abbreviation), full post office address, city and state of actual residence and citizenship are as stated below.

I believe that the named inventor(s) is/are the original, first of the subject matter which is claimed and for which a

Utility Patent       Design Patent

is sought on the invention, whose title appears above, the application of which:

is attached hereto

was filed on December 28, 2001, as U.S. Application Number 10/041,001

and was amended on February 11, 2004 (if applicable)

was described and claimed in PCT International Application Number , filed on and as amended under PCT Article 19 on and/or PCT Article 34 on

I hereby state that I have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to the patentability of this application in accordance with 37 CFR § 1.56.

**DISCLOSURE AND/OR CLAIM FOR PRIORITY UNDER  
35 U.S.C. §§ 119(a)-(d) OF FOREIGN APPLICATIONS FOR PATENT (OR  
INVENTOR'S CERTIFICATE FILED WITHIN 12 MONTHS (6 MONTHS FOR  
DESIGN) OF THIS APPLICATION**

I hereby claim foreign priority benefits under Title 35, United States Code §§ 119(a)-(d) of any foreign applications for patent, inventor's certificate or PCT international application designating at least one country other than the United States of America listed below and have also identified below any foreign application for patent, inventor's certificate or any PCT international application designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

Country (or indicate if PCT)	Application Number	Date of Filing (day, month, year)	Priority Claimed Under 37 USC § 119a-d
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No

**DISCLOSURE OF FOREIGN APPLICATION(S) IF ANY,  
FILED MORE THAN 12 MONTHS (6 MONTHS FOR DESIGN)  
PRIOR TO THE FILING OF THIS APPLICATION**

Country (or indicate if PCT)	Application Number	Date of Filing (day, month, year)

**CLAIM FOR PRIORITY OF UNITED STATES APPLICATIONS  
OR PCT APPLICATIONS FILED  
IN THE UNITED STATES RECEIVING OFFICE  
UNDER 35 U.S.C. § 120**

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Application No.	Date Filed	Status Patented/Pending/Abandoned

**CLAIM FOR BENEFIT OF PRIOR U.S. PROVISIONAL APPLICATION(S)  
UNDER 35 U.S.C. § 119(e)**

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below:

Provisional Application No.	Filing Date

## POWER OF ATTORNEY

I hereby appoint all the practitioners associated with Customer Number 23377 (which is the Customer Number assigned to Woodcock Washburn LLP) to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith. Each practitioner associated with Customer Number 23377 is an attorney registered before the United States Patent and Trademark Office.



23377

PATENT TRADEMARK OFFICE

I hereby appoint the following persons of the firm of WOODCOCK WASHBURN LLP, One Liberty Place - 46th Floor, Philadelphia, Pennsylvania 19103 as attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Attorney/Patent Agent	Registration No.

Address all telephone calls, correspondence and maintenance fee correspondence to:

**Steven B. Samuels, Esq.**  
WOODCOCK WASHBURN LLP  
One Liberty Place - 46th Floor  
Philadelphia PA 19103  
Telephone No.: (215) 568-3100  
Facsimile No.: (215) 568-3439

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

**Full name of sole or first joint inventor**

Arthur L. Lanni  
(*Given Name*) (*Middle Initial or Name*) (*Family or last name*)

**City/State of Actual Residence:** Cary, North Carolina

**Mailing Address:** 116 Overview Lane  
(*include street address, city, state, and zip code*) Cary, North Carolina 27511

**Country of Citizenship:** United States of America

**Inventor's signature:** A. Lanni

**Date:** 03-04-04

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

**Full name of second joint inventor**

Varagur R. Ramanan  
(*Given Name*) (*Middle Initial or Name*) (*Family or last name*)

**City/State of Actual Residence:** Cary, North Carolina

**Mailing Address:** 301 Whisperwood Drive  
(include street address, city, state,  
and zip code) Cary, North Carolina 27511

**Country of Citizenship:** United States of America

**Inventor's signature:** \_\_\_\_\_

**Date:** \_\_\_\_\_

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

**Full name of third joint inventor**

Marty L. Trivette  
(*Given Name*) (*Middle Initial or Name*) (*Family or last name*)

**City/State of Actual Residence:** Cary, North Carolina

**Mailing Address:** 105 Boltstone Court  
(*include street address, city, state,  
and zip code*) Cary, North Carolina 27513

**Country of Citizenship:** United States of America

**Inventor's signature:** \_\_\_\_\_

**Date:** \_\_\_\_\_

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:  
Arthur L. Lanni, et al.

For: HIGH INITIAL FORCE ELECTROMAGNETIC ACTUATOR

## SUPPLEMENTAL DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

## TYPE OF DECLARATION

The above identified application is a:

*(check one applicable item below)*

<input checked="" type="checkbox"/> Original	<input type="checkbox"/> Divisional
<input type="checkbox"/> Continuation	<input type="checkbox"/> U.S. National Stage of PCT
<input type="checkbox"/> Continuation-in-Part	

My full name (including family name and at least one given name without abbreviation), full post office address, city and state of actual residence and citizenship are as stated below.

I believe that the named inventor(s) is/are the original, first of the subject matter which is claimed and for which a

Utility Patent       Design Patent

is sought on the invention, whose title appears above, the application of which:

is attached hereto

was filed on **December 28, 2001**, as U.S. Application Number **10/041,001**

and was amended on **February 11, 2004** (if applicable)

was described and claimed in PCT International Application Number , filed on and as amended under PCT Article 19 on and/or PCT Article 34 on

I hereby state that I have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to the patentability of this application in accordance with 37 CFR § 1.56.

**DISCLOSURE AND/OR CLAIM FOR PRIORITY UNDER  
35 U.S.C. §§ 119(a)-(d) OF FOREIGN APPLICATIONS FOR PATENT (OR  
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Country (or indicate if PCT)	Application Number	Date of Filing (day, month, year)	Priority Claimed Under 37 USC § 119a-d
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No

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FILED MORE THAN 12 MONTHS (6 MONTHS FOR DESIGN)  
PRIOR TO THE FILING OF THIS APPLICATION**

Country (or indicate if PCT)	Application Number	Date of Filing (day, month, year)

**CLAIM FOR PRIORITY OF UNITED STATES APPLICATIONS  
OR PCT APPLICATIONS FILED  
IN THE UNITED STATES RECEIVING OFFICE  
UNDER 35 U.S.C. § 120**

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Application No.	Date Filed	Status Patented/Pending/Abandoned

**CLAIM FOR BENEFIT OF PRIOR U.S. PROVISIONAL APPLICATION(S)  
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I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below:

Provisional Application No.	Filing Date

## POWER OF ATTORNEY

I hereby appoint all the practitioners associated with Customer Number 23377 (which is the Customer Number assigned to Woodcock Washburn LLP) to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith. Each practitioner associated with Customer Number 23377 is an attorney registered before the United States Patent and Trademark Office.



23377

PATENT TRADEMARK OFFICE

I hereby appoint the following persons of the firm of WOODCOCK WASHBURN LLP, One Liberty Place - 46th Floor, Philadelphia, Pennsylvania 19103 as attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Attorney/Patent Agent	Registration No.

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**Steven B. Samuels, Esq.**  
WOODCOCK WASHBURN LLP  
One Liberty Place - 46th Floor  
Philadelphia PA 19103  
Telephone No.: (215) 568-3100  
Facsimile No.: (215) 568-3439

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

**Full name of sole or first joint inventor**

Arthur L. Lanni  
(*Given Name*) (*Middle Initial or Name*) (*Family or last name*)

**City/State of Actual Residence:** Cary, North Carolina**Mailing Address:** 116 Overview Lane  
(*include street address, city, state,  
and zip code*) Cary, North Carolina 27511**Country of Citizenship:** United States of America**Inventor's signature:** \_\_\_\_\_**Date:** \_\_\_\_\_

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

**Full name of second joint inventor**

Varagur R. Ramanan  
(Given Name) (Middle Initial or Name) (Family or last name)

**City/State of Actual Residence:** Cary, North Carolina

**Mailing Address:** 301 Whisperwood Drive  
(include street address, city, state,  
and zip code) Cary, North Carolina 27511

**Country of Citizenship:** United States of America

**Inventor's signature:** Varagur R Ramanan

**Date:** 2/27/04

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

**Full name of third joint inventor**

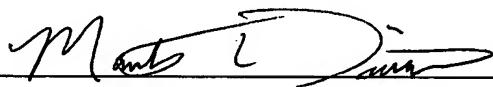
Marty L. Trivette  
(Given Name) (Middle Initial or Name) (Family or last name)

**City/State of Actual Residence:** Cary, North Carolina

**Mailing Address:** 105 Boltstone Court  
(include street address, city, state,  
and zip code) Cary, North Carolina 27513

**Country of Citizenship:** United States of America

**Inventor's signature:**



**Date:** 2/27/2004

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Arthur L. Lanni, et al.

Application No.: 10/041,001

Filing Date: December 28, 2001

For: High Initial Force Electromagnetic Actuator

Confirmation No.: 4719

Group Art Unit: 2832

Examiner: Lincoln D. Donovan

**EXPRESS MAIL LABEL NO: EV 386 719 934 US**  
**DATE OF DEPOSIT: March 16, 2004**

PLACE EXPRESS MAIL LABEL  
PEEL OFF STICKER HERE

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**STATEMENT IN SUPPORT OF REQUEST**  
**TO CORRECT INVENTORSHIP UNDER 37 C.F.R. 1.48(a)**

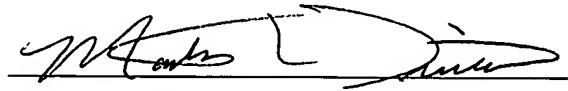
I, Marty L. Trivette, hereby state that:

1. An error has occurred in inventorship of the above-identified patent application.
2. This error occurred without deceptive intention on my part.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title

18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this statement is directed.

Date: 2/27/2004



Marty L. Trivette

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Arthur L. Lanni, et al.

Application No.: 10/041,001

Filing Date: December 28, 2001

For: High Initial Force Electromagnetic Actuator

Confirmation No.: 4719

Group Art Unit: 2832

Examiner: Lincoln D. Donovan

**EXPRESS MAIL LABEL NO: EV 386 719 934 US  
DATE OF DEPOSIT: March 16, 2004**

PLACE EXPRESS MAIL LABEL  
PEEL OFF STICKER HERE

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**CONSENT OF ASSIGNEE TO CHANGE OF INVENTORSHIP  
IN PATENT APPLICATION PURSUANT TO 1.48(a)(5) OR (c)(5)**

**ABB Technology AG**  
(*type or print name of assignee*)

owner by assignment of the above patent application

in the assignment being recorded concurrently herewith  
 in the assignment recorded in the PTO on **July 5, 2002**.

Frame **013054**  
Reel **0027**

hereby consents to the amendment of the inventorship of this patent application as requested

in the Request For Correction Of Inventorship Of Patent Application

in the papers mailed to the PTO on

For: ABB Technology AG

Date *MARCH 10, 2004*

*Robert L. Hirt*  
Signature

Robert L. Hirt  
Name of Signatory

Attorney-In-Fact  
Title